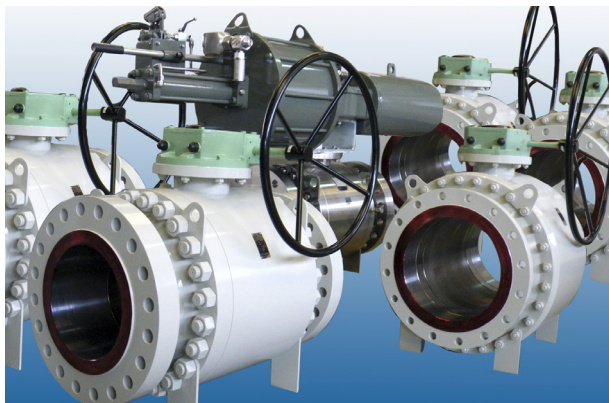


## **TRUNNION MOUNTED BALL VALVE SERIES F18TK/T60**



Trunnion mounted side entry steel ball valves are designed to meet API 6D / ISO 14313 and other referential international valve design standards, used for petroleum, petrochemical, oil, gas and any industrial.

### **GENERAL DESIGN STANDARD**

- Design: API 6D / ISO 14313
- Face to face: API 6D / ASME B16.10
- End connection: ASME B16.5
- Bore diameter: API 6D / ISO 14313
- Wall thickness: ASME B16.34

### **DESIGN FEATURE**

- Structure: 3 pieces bolted body and cap
- High shut-off sealing mechanism and low torque operation
- Block and bleed function
- Self cavity pressure relief
- Fire safe design
- Blow out proof stem construction
- Anti static design
- Locking device (for lever handle operation)
- ISO 5211 actuator mounting
- Emergency grease injection (option)
- PN design can be available

### **PRODUCT RANGE**

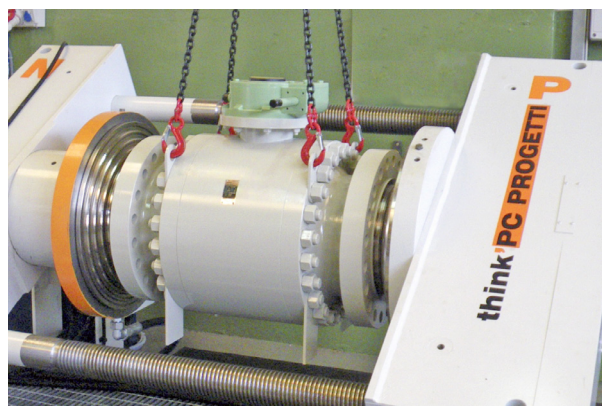
- Nominal pressure : Class 150 to 2500
- Nominal size : NPS 1 to 24
- Shell materials :  
Carbon and low alloy steel, Austenite  
Stainless steel, Duplex stainless steel,  
High alloy steel, Nickel based alloy
- Seat materials :  
Reinforced PTFE, Modified PTFE,  
Nylon 6, Nylon 12, DEVLON, PCTFE, PEEK

### **OPTION**

- NACE MR 0175 available
- Pneumatic and electric actuator
- Thru-conduit piggability bore
- Grease injection point for seat and stem
- Stem extension

### **CERTIFICATION**

- PED 97/23/EC
- Fire Test : ISO 10497-2010 / API 607 5th
- ATEX 94/9/EC



Item	Un-corrosive	Low temp.	Corrosive	Sour service	
Body	A105	LF2	F316 or 316	F51 or S31803	F55 or S32760
Cap	A105	LF2	F316 or 316	F51 or S31803	F55 or S32760
Ball	13Cr or A105+ENP	316 or LF2+ENP	F316 or 316	F51 or S31803	F55 or S32760
Stem	13Cr or 630	316 or 630	316 or S31803	S31803	S32760
Bottom stem	A105	LF2	316	S31803	S32760
Retainer	A105+ENP	LF2+ENP	316	S31803	S32760
Trunnion	A105 or WCB	LF2 or LCB	316 or CF8M	S31803 or CD3MN	S32760 or CD3MWCuN
Bonnet	A105	LF2	316	S31803	S32760
Gland plate	A105	LF2	316	316	316
Spring	AISI 301	AISI 301	Inconel X750	Inconel X750	Inconel X750
Bearing	CS+PTFE	CS+PTFE	316SS+PTFE	N06625 +PTFE	N06625 +PTFE
Bolt / Nut	B7 / 2H	L7 / 4	B8 / 8	B8 / 8	B8 / 8
O-ring	HNBR	L-NBR	FKM	FKM	FKM
Seat	R-PTFE (class up to 600)				
	Nylon 6 (class 900 and over)				

unit [mm]

### PRESSURE - TEMPERATURE RATING

The pressure-temperature rating of soft seated ball valve are determined, not only by the valve shell materials, but also by the sealing materials used for ball seat, gland packings, O-rings, flange gaskets and bearings. Sealing materials may be high molecule, or rubber, but the choice is limited by characteristics of the service fluid, working pressures, fluid velocity, and operational frequency of the valve.

As it is very difficult to predetermine the exact pressure-temperature ratings for all kinds of fluid under all imaginable conditions, general rating charts have been provided for non-shock fluid service below, based on KITZ past experiences both in the field and in KITZ laboratory. Frequent need of maintenance is another factor to be kept in mind, if very high temperature operation is planned or expected.

